UNIVERSITY OF HAWAII
LIBRARY

APR 2 1 18 PM '73

ANNALES ZOOLOGICI FENNICI

Vol. 9 1972

LIBRARY USE ONLY

SOCIETAS BIOLOGICA FENNICA VANAMO
HELSINKI

Annales Zoologici Fennici

The quarterly zoological journal of the Finnish Biological Society Vanamo (*Societas Biologica Fennica Vanamo*). Supplements may be published if necessary.

Editor: Prof. Ernst Palmén. **Other members of the Editorial Board:** Mr. Jorma Aho, Dr. Matti Helminen, Prof. Kari Lagerspetz, Prof. Tarvo Oksala, Dr. V. Ilmari Pajunen, Dr. Jaakko Syrjämäki, Prof. Sulo Toivonen, Prof. Risto Tuomikoski.

Exchange: The journal will be distributed on the basis of exchange. All correspondence should be sent to the Librarian, *Societas Biologica Fennica Vanamo*, Snellmaninkatu 9—11, 00170 Helsinki 17, Finland.

Subscription: Subscriptions should be paid through the distributor, Akateeminen Kirjakauppa (The Academic Bookstore), 00100 Helsinki 10, Finland. Subscription price U.S. $ 7.00.

This journal is a continuation of the former zoological series *Annales Zoologici Societas Zoologicae Botanicae Fennicae Vanamo*, which was suspended in 1963, and to the *Archivum Societatis Zoologicae Botanicae Fennicae Vanamo*, which has been suspended in 1964. The former *Annales* series is complete in 25 volumes, and the complete *Archivum* series consists of 18 volumes. Most of these back volumes are still available. Requests for exchange or for complimentary copies to scientific libraries and research institutions should be sent to the Librarian (address above).

Suomen Biologian Seuran Vanamon eläintieteellinen aikakauslehti. Ilmestyy neljänä numerona vuodessa. Lisävihkoja voidaan julkaista tarpeen vaatiessa.

Toimittaja: Prof. Ernst Palmén. **Toimituskunnan muut jäsenet:** Fil. lis. Jorma Aho, toht. Matti Helminen, prof. Kari Lagerspetz, prof. Tarvo Oksala, toht. V. Ilmari Pajunen, dos. Jaakko Syrjämäki, prof. Sulo Toivonen, prof. Risto Tuomikoski.

Painettaviksi aiotut käsikirjoitukset ja niitä koskevat tiedustelut lähetetään toimittajalle tai jollekulle muulle toimituskunnan jäsenelle.

Tilaushinta 20 mk (ilman lvv.). Kotimaiset tilaukset Rautatiekirjakaupan tai postitoimistojen välityksellä. Seuran jäsenet saavat aikakauslehden puolella hinnalla lähettämällä tilaukset kirjastonhoitajan kautta (osoite: Snellmaninkatu 9—11, 00170 Helsinki 17).

Contents — Sisältö

DASH, M. C.: New Enchytraeidae (Oligochaeta) from the Penny Forest soil of British Columbia, Canada ..... 15 – 16

HANSSON, L.: Evaluation of the small quadrat method of censusing small mammals ..... 184 – 190

HIETANEN, E. & HÄNNINEN, O.: Strain differences of intestinal enzyme levels in specific pathogen-free rats ..... 32 – 34

HISSA, R., HIRSIMÄKI, P., TARKKONEN, H. & HAAPALA, O.: Calorigenic effects of noradrenaline and Inderal in the temperature-acclimated Norwegian lemming ..... 35 – 41

HUHTA, V.: Efficiency of different dry funnel techniques in extracting Arthropoda from raw humus forest soil ..... 42 – 48

JANSSON, A.: Mechanisms of sound production and morphology of the stridulatory apparatus in the genus Cenocorixa (Hemiptera, Corixidae) ..... 120 – 129

KAIKUSALO, A.: Population turnover and wintering of the bank vole, Clethrionomys glareolus (Schreb.), in southern and central Finland ..... 219 – 224

KOPONEN, S. & HIETAKANGAS, H.: Food of the common lizard (Lacerta vivipara Jacquin) on a peat bog in southwestern Finland 191 – 192

KOSKELA, H.: Habitat selection of dung-inhabiting Staphylinids (Coleoptera) in relation to age of the dung ..... 156 – 171

KRISTOFFERSSON, R., BROBERG, S. & OIKARI, A.: Effect of temperature change on some blood constituents and osmotic balance in the pike (Esox lucius L.) in brackish water ..... 212 – 218

LAPPALAINEN, E. & LAHTI, S.: Postglacial evidence of the occurrence of the beaver (Castor fiber L.) in eastern Finland ..... 139 – 140

LEHTINEN, P. & SAARISTO, M.: Tallusia gen. n. (Araneae, Linyphiidae) ..... 265 – 268

LEMMETYINEN, P. & RAITIS, F.: Occurrence of Schistocephalus solidus Creplin (Cestoidea, Dibothriocephalidae) in common and arctic terns in southern Finland ..... 208 – 211

LINDQVIST, O.: Humidity reactions of the young of the terrestrial isopods Porcellio scaber Latr. and Tracheoniscus rathkei (Brandt) 10 – 14

LINDROTH, C. H.: Changes in the Ground-beetle fauna (Coleoptera, Carabidae) during the twentieth century ..... 49 – 64

MIKKOLA, K.: Behavioural, and electrophysiological responses of night-flying insects, especially Lepidoptera, to near-ultraviolet and visible light ..... 225 – 254

NUORTEVA, P. & HÄSÄNEN, E.: Transfer of mercury from fishes to sarcosaprophagous flies ..... 23 – 27

OLSON, J. K. & HORSFALL, W. R.: Thermal stress and anomalous development of mosquitoes (Diptera, Culicidae). VIII. Gonadal responses to fluctuating temperature ..... 98 – 110

PAASIVIRTA, L.: Taxonomy, ecology and swarming behaviour of Tanytarsus gracilentus Holmgr. (Diptera, Chironomidae) in Valassaaret, Gulf of Bothnia, Finland ..... 255 – 264

PAJUNEN, V. I.: Evaluation of a removal method for estimating the numbers of rock pool corixids (Hemiptera, Corixidae) .... 152 – 155
PORTIN, P.: The relationship between homologous and heterologous chromosome pairing in females of Drosophila melanogaster .... 75 – 97
PULLIAINEN, E.: Distribution and population structure of the bear (Ursus arctos L.) in Finland ..... 199 – 207
PULLIAINEN, E.: Nutrition of the arctic hare (Lepus timidus) in northeastern Lapland ..... 17 – 22
PULLIAINEN, E.: Summer nutrition of crossbills (Loxia pytyopsittacus L. curvirostra and L. leucoptera) in northeastern Lapland in 1971 ..... 28 – 31
RYGG, B.: Factors controlling the habitat selection of Gammarus duebeni Lillj. (Crustacea, Amphipoda) in the Baltic ..... 172 – 183
SAARISTO, M.: Redelimitation of the genus Oreonetides Strand, 1901 (Araneae, Linyphiidae) based on an analysis of the genital organs 69 – 74
SAMŠIŇÁK, K.: Redescription of Hericia georgei Michael, 1903 (Acarina, Tyroglyphidae), phoretic on Lepidoptera ..... 65 – 68
SAVOLAINEN, E. & SYRJÄMÄKI, J.: Swarming of Trichocera maculipennis Meig. (Diptera, Trichoceridae) ..... 137 – 138
SKARÉN, U.: Fluctuations in small mammal populations in mossy forests of Kuhmo, eastern Finland, during eleven years ..... 147 – 151
SÄRKKÄ, J.: The bottom macrofauna of the oligotrophic Lake Konnevesi, Finland ..... 141 – 146
SÄRKKÄ, J. & PAASIVIRTA, L.: Vertical distribution and abundance of the macro- and meiofauna in the profundal sediments of Lake Päijänne, Finland ..... 1 – 9
TAST, J.: Annual variations in the weights of wintering root voles, Mircotus oeconomus, in relation to their food conditions ..... 116 – 119
ULMANEN, I.: Distribution and ecology of Ixodes trianguliceps Birula (Acarina, Ixodidae) in Finland ..... 111 – 115
URQUHART, F. A.: Functions of the prismatic pigmented maculae (PPM) of the pupa of Danaus p. plexippus (Lepidoptera, Danaidae) ..... 193 – 198
VOIPIO, P.: Silbermöwen der Larus argentatus cachinnans -Gruppe als Besiedler des baltischen Raumes ..... 131 – 136

Suomalaisen Kirjallisuuden Kirjapaino Oy Helsinki 1972